



Highland International, Inc.

Engineered Paint Systems

HiTemp 860-HF Series

Silicone Copolymer Primer for use in the Hot Mix Asphalt Industry

HiTemp 860-HF Series is a single package silicone copolymer primer designed for heat affected zones up to 400°F. It is limited to less than 3 lbs. VOC per gallon. It offers maximum adhesion and corrosion protection even in limited surface preparation areas. 860-HF Series may be topcoated with a wide range of topcoats (silicone alkyds, alkyds, urethanes & acrylics). Its light color allows lead-free orange, yellow and red topcoats to be applied in only "One Coat" for proper hiding. To further increase corrosion protection, 860-HF Series' light color is designed to show shadows in the steel surface until proper film thickness has been achieved.

Vehicle Type:	Silicone Copolymer
Pigmentation:	Zinc Phosphate (Lead & Chromate Free)
Reducer:	Not Normally Required
In summer as desired:	Highland #100 Reducer
In winter as desired:	Highland #120 Reducer
Mix Ratio:	Single Package
Pot Life:	N/A
Volume Solids:	50%
Theoretical Coverage:	800ft ² /gal. @ 1 mil DFT
VOC:	<392 g/L
Flash Point:	16°F (Lowest Flashing Component)
Recommended DFT:	2-3 mils
Dry-time:	<u>Normal</u>
To Touch:	20 Minutes
Tack Free:	1 Hour
To Topcoat:	1-2 Hours, Maximum – No Limit
To Handle:	2-3 Hours
Put in Service:	12 Hours
Shelf Life:	1 Year Minimum
Finish:	Flat
Color:	Light Yellow

Surface Preparation

- 1) Minimum surface preparation should be in accordance with SSPC-SP6 Commercial Blast Cleaning.
- 2) When blast cleaning is not an option, SSPC-SP3 Power Tool or SSPC-SP2 Wire Brushing is acceptable and provides good results. Also Water Jetting in accordance with SSPC-SP12 is acceptable.
- 3) All surfaces to be painted should be dry and free of all foreign contaminants.

Mixing and Application Requirements

- 1) Stir product thoroughly prior to use.
- 2) Spray-apply at a rate of 266-400 square feet per gallon to obtain recommended DFT in one coat
- 3) Topcoat with Highland 865-LH Series, 840 Series, 150C Series or 805 Series. *(If topcoating with 805 make sure to read the 805 Tech Sheet for Heat Curing requirements.)*

Method of Application

Conventional Gun:	DeVilbiss MBC-510
Fluid Tip:	E
Air Cap:	704
Atomizing Pressure:	60 psi
Pot Pressure:	15-20 psi
Hose:	3/8 inch ID
Airless Gun:	Graco 205-591
Pump:	30:1/45:1/60:1, Gas Pump Acceptable
Tip Range:	3.013– 4.015
Pump Pressure:	1,800 – 3,000 psi Minimum
Hose:	3/8 inch ID
Brush or Roller:	Both are acceptable
Clean Up:	Clean all equipment with lacquer thinner

Safety Precautions

- 1) Use normal precautions such as gloves, facemasks and barrier creams.
- 2) Adequate ventilation must be maintained. In confined areas, workmen must wear constant flow airline respirators.
- 3) If product comes into contact with skin, wash thoroughly with lukewarm water or diluted Boric Acid, and obtain immediate medical attention.
- 4) This product contains **FLAMMABLE** materials. Keep away from sparks and open flames. Observe **NO SMOKING** regulations.
- 5) All electrical equipment and installations should conform to NEC regulations. In areas where explosion hazards exist, workmen should be required to use non-ferrous tools, and to wear conductive, non sparking shoes.
- 6) Observe low flash regulations.
- 7) Refer to Material Safety Data Sheet (MSDS) for complete safety instructions.

The technical data listed herein has been compiled for your convenience and guidelines are based upon our experience and knowledge. However, since we have no control over the use of this information or this product, no warranty expressed or implied is intended or given. Highland assumes no responsibility whatsoever for coverage, performance or any other damage, including injuries from use of this information or products recommended herein.